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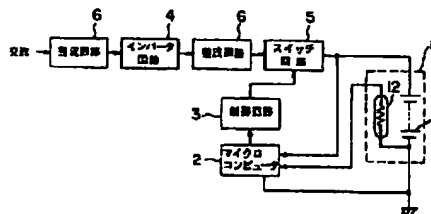
(54) CHARGER FOR SECONDARY BATTERY

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(57) Abstract:

PURPOSE: To surely perform charging approximately to 100% in a short time by sampling the temperature and the voltage of a battery by a sampling means, and performing charge control by a microcomputer.

CONSTITUTION: When a secondary battery is connected and its charging is started, a microcomputer 2 judges whether the battery temperature measured by a temperature sensor 12 is within a set range, and charge is not performed unless the temperature is in the set range. Next the voltage of the secondary battery is measured. And if the temperature and the voltage of the secondary battery are within ranges by set values, charge current for the battery is determined and charge operation is started. Then the microcomputer 2 reads the battery temperature measured by the temperature sensor 12 and compares it with a limit temperature, and if it exceeds the limit the charge is stopped. Next a temperature rise is detected by the data of the battery temperature read into the microcomputer 2, and if it is satisfied it judges the charging has completed, and the charge is transferred to trickle charging. Consequently, it becomes possible to charge the secondary battery approximately to 100%.



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